Claims

[1] A window type air conditioner comprising:
a case of which one side is positioned at an indoor side and another side is positioned at an outdoor side;
an indoor heat exchanger mounted inside the case positioned at the indoor side thus to be heat-exchanged with the indoor air;
an indoor cross flow fan for generating a blowing force so that the indoor air can pass through the indoor heat exchanger and for sucking the indoor air in a circumferential direction thereof and thereby discharging the indoor air in the circumferential direction thereof;
an outdoor heat exchanger mounted inside the case positioned at the outdoor side thus to be heat-exchanged with the outdoor air; and
an outdoor cross flow fan for generating a blowing force so that the outdoor air can pass through the outdoor heat exchanger and for sucking the outdoor air in a circumferential direction thereof and thereby discharging the outdoor air in the circumferential direction thereof.

[2] The window type air conditioner of claim 1, wherein a compressor for compressing a refrigerant into a high temperature and a high pressure is installed at one side of the outdoor heat exchanger, and a horizontal type compressor that a driving unit and a refrigerant compression unit are horizontally arranged is applied as the compressor.

[3] The window type air conditioner of claim 1, wherein an indoor air suction port for sucking the indoor air is formed at the front side of the case positioned at the indoor side, and an indoor air discharge port for discharging the indoor air is formed at the upper surface of the case positioned at the indoor side.

[4] The window type air conditioner of claim 3, wherein the indoor air suction port has a size that occupies up the front surface of the case.

[5] The window type air conditioner of claim 4, wherein the indoor heat exchanger is vertically arranged inside the indoor air suction port.

[6] The window type air conditioner of claim 1, wherein the indoor cross flow fan is composed of:
a hub arranged in a longitudinal direction of the indoor heat exchanger and connected to the driving motor; and
a plurality of blades formed at the outer circumferential surface of the hub with a

certain interval and arranged in a longitudinal direction of the indoor heat exchanger.

[7] The window type air conditioner of claim 6, wherein a guide panel for guiding the indoor air sucked in the indoor air suction port to an indoor air discharge port is installed at one side of the indoor cross flow fan, and a stabilizer for dividing a suction side and a discharge side of the indoor cross flow fan is installed at one side of the case.

[8] The window type air conditioner of claim 1, wherein an outdoor air suction port for sucking the outdoor air is formed at the rear surface of the case positioned at the outdoor side, and an outdoor air discharge port for discharging the outdoor air is formed at the upper surface of the case positioned at the outdoor side.

[9] The window type air conditioner of claim 8, wherein the outdoor air suction port has a size that occupies up the rear surface of the case.

[10] The window type air conditioner of claim 8, wherein the outdoor heat exchanger is composed of:

a first outdoor heat exchanger installed inside the outdoor air suction port thus to be heat-exchanged with the outdoor air sucked through the outdoor air suction port; and

a second outdoor heat exchanger installed inside the outdoor air discharge port thus to be heat-exchanged with the outdoor air discharged to the outdoor air discharge port.

[11] The window type air conditioner of claim 10, wherein the first outdoor heat exchanger is vertically arranged inside the outdoor air suction port, and the second outdoor heat exchanger is horizontally arranged inside the outdoor air discharge port.

[12] The window type air conditioner of claim 1, wherein the outdoor cross flow fan is composed of:

a hub arranged in a longitudinal direction of the outdoor heat exchanger and connected to the driving motor; and

a plurality of blades formed at the outer circumferential surface of the hub with a certain interval and having a certain length.

[13] The window type air conditioner of claim 6, wherein a stabilizer for dividing a suction side and a discharge side of the outdoor cross flow fan is installed between the first outdoor heat exchanger and the second outdoor heat exchanger, and a guide panel for guiding the indoor air sucked in the outdoor air

suction port to the outdoor air discharge port is installed at one side of the outdoor cross flow fan.

[14] The window type air conditioner of claim 12, wherein the blade of the outdoor cross flow fan is in contact with condensing water stored at the lower surface of the case positioned at the outdoor side thereby to spray the condensing water when the outdoor cross flow fan is rotated.

[15] A window type air conditioner comprising:
a case of which one side is positioned at an indoor side and another side is positioned at an outdoor side;
an indoor heat exchanger mounted inside the case positioned at the indoor side thus to be heat-exchanged with the indoor air;
a centrifugal fan for generating a blowing force so that the indoor air can pass through the indoor heat exchanger;
an outdoor heat exchanger mounted inside the case positioned at the outdoor side thus to be heat-exchanged with the outdoor air; and
a cross flow fan for generating a blowing force so that the outdoor air can pass through the outdoor heat exchanger and for sucking the outdoor air in a circumferential direction thereof and thereby discharging the outdoor air in the circumferential direction thereof.

[16] The window type air conditioner of claim 15, wherein an outdoor air suction port for sucking the outdoor air is formed at the rear surface of the case positioned at the outdoor side, and an outdoor air discharge port for discharging the outdoor air is formed at the upper surface of the case positioned at the outdoor side.

[17] The window type air conditioner of claim 16, wherein the outdoor heat exchanger is composed of:
a first outdoor heat exchanger installed inside the outdoor air suction port thus to be heat-exchanged with the outdoor air sucked through the outdoor air suction port; and
a second outdoor heat exchanger installed inside the outdoor air discharge port thus to be heat-exchanged with the outdoor air discharged to the outdoor air discharge port.

[18] The window type air conditioner of claim 15, wherein the outdoor cross flow fan is composed of:
a hub arranged in a longitudinal direction of the outdoor heat exchanger and connected to the driving motor; and

a plurality of blades formed at the outer circumferential surface of the hub with a certain interval and having a certain length.

[19] The window type air conditioner of claim 18, wherein the blade of the outdoor cross flow fan is in contact with condensing water stored at the lower surface of the case positioned at the outdoor side thereby to spray the condensing water when the outdoor cross flow fan is rotated.